

Appl. No. 09/823,328
Amdt. Dated December 7, 2004
Reply to Office Action of September 8, 2004

Attorney Docket No. 81784.0233
Customer No.: 26021

REMARKS/ARGUMENTS

Claims 6-14 were pending in the Application. By this Amendment, Claims 6-10 and 12-14 are being amended to improve their form, and new claim 15 is being added, to advance the prosecution of the application. No new matter is involved.

In the Office Action of September 8, 2004, claims 6, 8, 13 and 14 are rejected under 35 U.S.C. § 102(e) as being anticipated by U.S. Patent 6,236,394 of Ikeda. Claims 7 and 9-12 are rejected under 35 U.S.C. § 103(b) as being unpatentable over Ikeda '394 in view of U.S. Patent 5,847,702 of Jung. These rejections are respectfully traversed, particularly in view of the claims as amended herein.

As shown and described in connection with Fig. 6 of the present application, the present invention provides a charge pump type power supply circuit which is characterized by two power supply clocks being generated in accordance with a system clock. The control circuit of the power supply circuit suspends the generation of the two power supply clocks in response to a power save control instruction. Suspension of the two power supply clocks occurs one by one (i.e., not at the same time).

The cited references, taken individually or in the attempted combination thereof, do not show or suggest such features in accordance with the invention. Claim 6 defines a charge pump type power supply circuit. As amended, the power supply circuit of claim 6 includes "two power supply clocks generated in accordance with a system clock". Further, as amended herein, the power supply circuit of claim 6 recites that the control circuit thereof "suspends generation of the two power supply clocks in response to a power save control instruction, suspension of generation of the two supply clocks occurring one by one". As so amended, claim 6 is submitted to clearly distinguish patentably over Ikeda '394.

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Claim 7, depends from and contains all of the limitations of Claim 6, so as to clearly distinguish patentability over the art.

Claim 8, which is an independent claim, is being amended so as to include limitations similar to those of Claim 6 as amended herein. As so amended, Claim 8 is also submitted to clearly distinguish patentably over the art.

Claim 9 depends from and contains all of the limitations of Claim 8 so as to also distinguish patentably over the art.

Claim 10, which is an independent claim, is being amended herein in order to include limitations similar to those added to Claim 6 by the amendment herein. Therefore, Claim 10 is submitted to clearly distinguish patentably over the art.

Claims 11-14 depend, directly or indirectly from, and contain all of the limitations of Claim 10, so as to also distinguish patentably over the art.

New Claim 15 depends from and further defines the power supply circuit of Claim 6 in terms of additional limitations in accordance with the invention which are described on pages 18 and 19 of the specification and which are neither shown nor suggested by the cited art. These additional features include the provision of two power supply circuits, an output voltage of one of which is higher than the output voltage of the other. Furthermore, the control circuit first suspends a power supply clock of the power circuit that outputs the lower supply voltage. Again, these features are neither shown nor suggested by the cited art.

In conclusion, Claims 6-14 as amended herein and new Claim 15, are submitted to clearly distinguish patentably over the prior art for the reasons discussed above. Therefore, reconsideration and allowance are respectfully requested.

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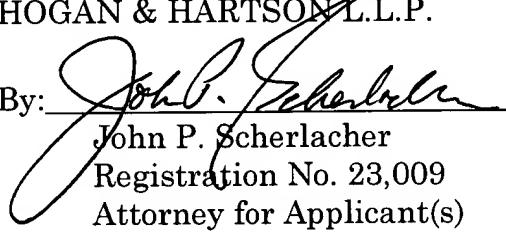
If for any reason the Examiner finds the application other than in condition for allowance, the Examiner is requested to call the undersigned attorney at the Los Angeles, California telephone number (213) 337-6700 to discuss the steps necessary for placing the application in condition for allowance.

If there are any fees due in connection with the filing of this response, please charge the fees to our Deposit Account No. 50-1314.

Respectfully submitted,

HOGAN & HARTSON L.L.P.

Date: December 7, 2004

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